

## **ABSTRACT**

Resource Estimation obtained through calculation and analysis of exploration data that have been obtained in the form of data drilling, strike, dip, and thickness of coal. Resource Assessment conducted in order to determine the estimated amount of coal resource tonnage. Locations mapping located in the concession area of PT Primary Minerals Core area of 1115,5 hectares, located in the West Kutai regency, East Kalimantan province.

The purpose of this study was to apply the method in determining the amount of Cross Section Coal Resources and Coal Resource estimate number of research areas.

The method used in this study is by observation in the field, while the method of valuation reserves Cross Section used method by comparing the incremental changes to the guidelines guidelines nearest point.

The results are expected to determine the volume of resources, Seam A and Seam B, determine the tonnage of coal.

The conclusion by using the method of Cross Section with guidance rule of gradual change, the distance between the incision of  $\pm 100$  m and obtained Measured resources of seam A is 109.279,44 tons and 225.416 tons of seam B so the total tonnage of Coal is 334.695,55 tons.

Methods Cross Section with guidance rule of nearest point to the distance between the incision of  $\pm 100$  m and obtained Measured coal resource seam A is 114,962.90 tons and seam B is 225.416,10 tons, so the total tonnage of coal was 340.379 tons.

Keyword : Measured resources, rule of gradual change, Rule of Nearest Point